



PART# HERE 1-1-2012/Full Layout/1/1/2012

COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N)

BAL/Desc/Loc	1	2	3	4	4/1X	
Nominal					2565.403	
Geo. Name	Note	Note	Note	Note	X	
Tolerance					+/-0.250	
Comment	169.3MM DISTANCE	(NET TRUE POSITION OF	TRUE POSITION OF	PROFILE OF GAP TO	LOCATION OF POINT 4_1	
Device					CMM	
Piece 001	NOTED	NOTED	NOTED	NOTED	2565.434	0.031
Piece 002	NOTED	NOTED	NOTED	NOTED	2565.435	0.032
Piece 003	NOTED	NOTED	NOTED	NOTED	2565.433	0.030
Piece 004	NOTED	NOTED	NOTED	NOTED	2565.432	0.029
Piece 005	NOTED	NOTED	NOTED	NOTED	2565.440	0.037
Minimum	N/A	N/A	N/A	N/A	2565.432	
Maximum	N/A	N/A	N/A	N/A	2565.440	
Range	N/A	N/A	N/A	N/A	0.008	
Mean	N/A	N/A	N/A	N/A	2565.435	
Std. Dev.	N/A	N/A	N/A	N/A	0.003114	
Cr	N/A	N/A	N/A	N/A	0.037	
Cp	N/A	N/A	N/A	N/A	26.761	
Cpk Sigma +/- 3	N/A	N/A	N/A	N/A	23.353	
Std. Dev. (Range)	N/A	N/A	N/A	N/A	0.003114	
XBarBar	N/A	N/A	N/A	N/A	2565.435	
RBar	N/A	N/A	N/A	N/A	0.000	
Pp	N/A	N/A	N/A	N/A	26.761	
Ppk	N/A	N/A	N/A	N/A	23.357	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	4/1Y	4/1Z	4/1V	4/2X	4/2Y
Nominal	-91.788	722.495	0.000	2578.361	-89.531
Geo. Name	Y	Z	VECTOR	X	Y
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250
Comment	LOCATION OF POINT 4_2				
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	-92.182	722.444	0.398	2578.407	-89.915
Piece 002	-92.200	722.442	0.416	2578.407	-89.915
Piece 003	-92.171	722.446	0.388	2578.403	-89.877
Piece 004	-92.158	722.447	0.374	2578.408	-89.919
Piece 005	-92.263	722.434	0.480	2578.412	-89.954
Minimum	-92.263	722.434	0.374	2578.403	-89.954
Maximum	-92.158	722.447	0.480	2578.412	-89.877
Range	0.105	0.013	0.106	0.009	0.077
Mean	-92.195	722.443	0.411	2578.407	-89.916
Std. Dev.	0.041118	0.005177	0.041391	0.003209	0.027276
Cr	0.493	0.062	0.497	0.039	0.327
Cp	2.027	16.097	2.013	25.969	3.055
Cpk Sigma +/- 3	-1.271	12.723	-1.298	21.146	-1.650
Std. Dev. (Range)	0.041118	0.005177	0.041391	0.003209	0.027276
XBarBar	-92.195	722.443	0.411	2578.407	-89.916
RBar	0.000	0.000	0.000	0.000	0.000
Pp	2.027	16.097	2.013	25.969	3.055
Ppk	-1.271	12.723	-1.298	21.149	-1.650



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	4/2Z		4/2V		4/3X		4/3Y		4/3Z	
Nominal	715.692		0.000		2592.374		-86.989		710.953	
Geo. Name	Z		VECTOR		X		Y		Z	
Tolerance	+/-0.250		+/-0.250		+/-0.250		+/-0.250		+/-0.250	
Comment					LOCATION OF POINT 4_3					
Device	CMM		CMM		CMM		CMM		CMM	
Piece 001	715.633	-0.059	0.392	0.392	2592.426	0.052	-87.385	-0.396	710.891	-0.062
Piece 002	715.633	-0.059	0.392	0.392	2592.422	0.048	-87.352	-0.363	710.896	-0.057
Piece 003	715.639	-0.053	0.353	0.353	2592.437	0.063	-87.466	-0.477	710.878	-0.075
Piece 004	715.632	-0.060	0.396	0.396	2592.429	0.055	-87.404	-0.415	710.888	-0.065
Piece 005	715.627	-0.065	0.432	0.432	2592.453	0.079	-87.590	-0.601	710.858	-0.095
Minimum	715.627		0.353		2592.422		-87.590		710.858	
Maximum	715.639		0.432		2592.453		-87.352		710.896	
Range	0.012		0.079		0.031		0.238		0.038	
Mean	715.633		0.393		2592.433		-87.439		710.882	
Std. Dev.	0.004266		0.027982		0.012260		0.093861		0.015040	
Cr	0.051		0.336		0.147		1.126		0.180	
Cp	19.534		2.978		6.797		0.888		5.541	
Cpk Sigma +/- 3	14.908		-1.703		5.182		-0.712		3.972	
Std. Dev. (Range)	0.004266		0.027982		0.012260		0.093861		0.015040	
XBarBar	715.633		0.393		2592.433		-87.439		710.882	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	19.534		2.978		6.797		0.888		5.541	
Ppk	14.909		-1.703		5.182		-0.712		3.972	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	4/3V	4/4X	4/4Y	4/4Z	4/4V
Nominal	0.000	2593.715	86.751	710.553	0.000
Geo. Name	VECTOR	X	Y	Z	VECTOR
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250
Comment		LOCATION OF POINT 4_4			
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	0.404	2593.748	86.998	710.514	0.253
Piece 002	0.370	2593.733	86.889	710.531	0.142
Piece 003	0.487	2593.752	87.031	710.509	0.286
Piece 004	0.423	2593.734	86.892	710.530	0.145
Piece 005	0.613	2593.753	87.038	710.507	0.293
Minimum	0.370	2593.733	86.889	710.507	0.142
Maximum	0.613	2593.753	87.038	710.531	0.293
Range	0.243	0.020	0.149	0.024	0.151
Mean	0.459	2593.744	86.970	710.518	0.224
Std. Dev.	0.095840	0.009772	0.073779	0.011520	0.074851
Cr	1.150	0.117	0.885	0.138	0.898
Cp	0.870	8.528	1.129	7.234	1.113
Cpk Sigma +/- 3	-0.728	7.538	0.142	6.227	0.117
Std. Dev. (Range)	0.095840	0.009772	0.073779	0.011520	0.074851
XBarBar	0.459	2593.744	86.970	710.518	0.224
RBar	0.000	0.000	0.000	0.000	0.000
Pp	0.870	8.528	1.129	7.234	1.113
Ppk	-0.728	7.539	0.142	6.227	0.117



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	4/5X		4/5Y		4/5Z		4/5V		4/6X	
Nominal	2579.044		89.407		715.421		0.000		2564.551	
Geo. Name	X		Y		Z		VECTOR		X	
Tolerance	+/-0.250		+/-0.250		+/-0.250		+/-0.250		+/-0.250	
Comment	LOCATION OF POINT 4_5								LOCATION OF POINT 4_6	
Device	CMM		CMM		CMM		CMM		CMM	
Piece 001	2579.075	0.031	89.660	0.253	715.382	-0.039	0.258	0.258	2564.572	0.021
Piece 002	2579.062	0.018	89.550	0.143	715.399	-0.022	0.146	0.146	2564.560	0.009
Piece 003	2579.076	0.032	89.666	0.259	715.381	-0.040	0.264	0.264	2564.569	0.018
Piece 004	2579.069	0.025	89.611	0.204	715.389	-0.032	0.208	0.208	2564.569	0.018
Piece 005	2579.076	0.032	89.670	0.263	715.380	-0.041	0.269	0.269	2564.569	0.018
Minimum	2579.062		89.550		715.380		0.146		2564.560	
Maximum	2579.076		89.670		715.399		0.269		2564.572	
Range	0.014		0.120		0.019		0.123		0.012	
Mean	2579.072		89.631		715.386		0.229		2564.568	
Std. Dev.	0.006107		0.051350		0.007981		0.052431		0.004550	
Cr	0.073		0.616		0.096		0.629		0.055	
Cp	13.646		1.623		10.441		1.589		18.315	
Cpk Sigma +/- 3	12.138		0.166		8.988		0.134		17.085	
Std. Dev. (Range)	0.006107		0.051350		0.007981		0.052431		0.004550	
XBarBar	2579.072		89.631		715.386		0.229		2564.568	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	13.646		1.623		10.441		1.589		18.315	
Ppk	12.139		0.166		8.988		0.134		17.084	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	4/6Y	4/6Z	4/6V	5	5/1X
Nominal	91.930	723.094	0.000		2562.213
Geo. Name	Y	Z	VECTOR	Note	X
Tolerance	+/-0.250	+/-0.250	+/-0.250		+/-0.250
Comment				PROFILE OF GAP TO TRAY	LOCATION OF POINT 5_1
Device	CMM	CMM	CMM		CMM
Piece 001	92.215	723.058	0.287	NOTED	2561.489
Piece 002	92.053	723.078	0.125	NOTED	2561.561
Piece 003	92.171	723.063	0.243	NOTED	2561.522
Piece 004	92.169	723.064	0.241	NOTED	2562.265
Piece 005	92.171	723.063	0.243	NOTED	2561.530
Minimum	92.053	723.058	0.125	N/A	2561.489
Maximum	92.215	723.078	0.287	N/A	2562.265
Range	0.162	0.020	0.162	N/A	0.776
Mean	92.156	723.065	0.228	N/A	2561.673
Std. Dev.	0.060640	0.007530	0.060640	N/A	0.331705
Cr	0.728	0.090	0.728	N/A	3.980
Cp	1.374	11.067	1.374	N/A	0.251
Cpk Sigma +/- 3	0.133	9.792	0.122	N/A	-0.291
Std. Dev. (Range)	0.060640	0.007530	0.060640	N/A	0.331705
XBarBar	92.156	723.065	0.228	N/A	2561.673
RBar	0.000	0.000	0.000	N/A	0.000
Pp	1.374	11.067	1.374	N/A	0.251
Ppk	0.133	9.792	0.122	N/A	-0.291



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	5/1Y	5/1Z	5/1V	5/2X	5/2Y
Nominal	86.442	723.041	0.000	2562.153	66.861
Geo. Name	Y	Z	VECTOR	X	Y
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250
Comment	LOCATION OF POINT 5_2				
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	86.444	723.028	0.724	2561.694	66.862
Piece 002	86.444	723.030	0.652	2561.567	66.862
Piece 003	86.444	723.029	0.691	2561.625	66.862
Piece 004	86.442	723.042	-0.052	2562.236	66.860
Piece 005	86.444	723.029	0.683	2561.652	66.862
Minimum	86.442	723.028	-0.052	2561.567	66.860
Maximum	86.444	723.042	0.724	2562.236	66.862
Range	0.002	0.014	0.776	0.669	0.002
Mean	86.444	723.032	0.540	2561.755	66.862
Std. Dev.	0.000894	0.005857	0.331705	0.272917	0.000894
Cr	0.011	0.070	3.980	3.275	0.011
Cp	93.214	14.228	0.251	0.305	93.214
Cpk Sigma +/- 3	92.573	13.694	-0.291	-0.181	92.946
Std. Dev. (Range)	0.000894	0.005857	0.331705	0.272917	0.000894
XBarBar	86.444	723.032	0.540	2561.755	66.862
RBar	0.000	0.000	0.000	0.000	0.000
Pp	93.214	14.228	0.251	0.305	93.214
Ppk	92.617	13.693	-0.291	-0.181	92.990



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	5/2Z		5/2V		5/3X		5/3Y		5/3Z	
Nominal	722.993		0.000		2562.108		50.573		723.328	
Geo. Name	Z		VECTOR		X		Y		Z	
Tolerance	+/-0.250		+/-0.250		+/-0.250		+/-0.250		+/-0.250	
Comment					LOCATION OF POINT 5_3					
Device	CMM		CMM		CMM		CMM		CMM	
Piece 001	722.985	-0.008	0.459	0.459	2561.781	-0.327	50.573		723.323	-0.005
Piece 002	722.983	-0.010	0.586	0.586	2561.570	-0.538	50.574	0.001	723.319	-0.009
Piece 003	722.984	-0.009	0.528	0.528	2561.682	-0.426	50.574	0.001	723.321	-0.007
Piece 004	722.994	0.001	-0.083	-0.083	2562.179	0.071	50.573		723.330	0.002
Piece 005	722.984	-0.009	0.501	0.501	2561.731	-0.377	50.574	0.001	723.322	-0.006
Minimum	722.983		-0.083		2561.570		50.573		723.319	
Maximum	722.994		0.586		2562.179		50.574		723.330	
Range	0.011		0.669		0.609		0.001		0.011	
Mean	722.986		0.398		2561.789		50.574		723.323	
Std. Dev.	0.004528		0.272917		0.231807		0.000548		0.004183	
Cr	0.054		3.275		2.782		0.007		0.050	
Cp	18.404		0.305		0.359		152.068		19.922	
Cpk Sigma +/- 3	17.890		-0.181		-0.100		151.780		19.522	
Std. Dev. (Range)	0.004528		0.272917		0.231807		0.000548		0.004183	
XBarBar	722.986		0.398		2561.789		50.574		723.323	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	18.404		0.305		0.359		152.068		19.922	
Ppk	17.889		-0.181		-0.100		151.703		19.523	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	5/3V	5/4X	5/4Y	5/4Z	5/4V					
Nominal	0.000	2562.080	27.759	722.892	0.000					
Geo. Name	VECTOR	X	Y	Z	VECTOR					
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250					
Comment		LOCATION OF POINT 5_4								
Device	CMM	CMM	CMM	CMM	CMM					
Piece 001	0.328	0.328	2561.813	-0.267	27.760	0.001	722.888	-0.004	0.267	0.267
Piece 002	0.539	0.539	2561.552	-0.528	27.760	0.001	722.883	-0.009	0.528	0.528
Piece 003	0.426	0.426	2561.701	-0.379	27.760	0.001	722.886	-0.006	0.379	0.379
Piece 004	-0.070	-0.070	2562.060	-0.020	27.759		722.892		0.020	0.020
Piece 005	0.378	0.378	2561.775	-0.305	27.760	0.001	722.887	-0.005	0.305	0.305
Minimum	-0.070		2561.552		27.759		722.883		0.020	
Maximum	0.539		2562.060		27.760		722.892		0.528	
Range	0.609		0.508		0.001		0.009		0.508	
Mean	0.320		2561.780		27.760		722.887		0.300	
Std. Dev.	0.231692		0.185566		0.000447		0.003271		0.185566	
Cr	2.780		2.227		0.005		0.039		2.227	
Cp	0.360		0.449		186.428		25.476		0.449	
Cpk Sigma +/- 3	-0.101		-0.089		185.743		24.987		-0.089	
Std. Dev. (Range)	0.231692		0.185566		0.000447		0.003271		0.185566	
XBarBar	0.320		2561.780		27.760		722.887		0.300	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	0.360		0.449		186.428		25.476		0.449	
Ppk	-0.101		-0.089		185.831		24.987		-0.089	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	5/5X	5/5Y	5/5Z	5/5V	5/6X				
Nominal	2562.063	0.492	722.999	0.000	2562.079				
Geo. Name	X	Y	Z	VECTOR	X				
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250				
Comment	LOCATION OF POINT 5_5				LOCATION OF POINT 5_6				
Device	CMM	CMM	CMM	CMM	CMM				
Piece 001	2561.826	-0.237	0.492	722.994	-0.005	0.236	0.236	2561.782	-0.297
Piece 002	2561.595	-0.468	0.492	722.990	-0.009	0.468	0.468	2561.628	-0.451
Piece 003	2561.754	-0.309	0.492	722.993	-0.006	0.309	0.309	2561.779	-0.300
Piece 004	2561.966	-0.097	0.492	722.997	-0.002	0.097	0.097	2561.848	-0.231
Piece 005	2561.852	-0.211	0.492	722.995	-0.004	0.210	0.210	2561.879	-0.200
Minimum	2561.595	N/A	722.990	0.097	2561.628				
Maximum	2561.966	N/A	722.997	0.468	2561.879				
Range	0.371	N/A	0.007	0.371	0.251				
Mean	2561.799	N/A	722.994	0.264	2561.783				
Std. Dev.	0.136992	N/A	0.002588	0.137140	0.096802				
Cr	1.644	N/A	0.031	1.646	1.162				
Cp	0.608	N/A	32.200	0.608	0.861				
Cpk Sigma +/- 3	-0.035	N/A	31.525	-0.034	-0.158				
Std. Dev. (Range)	0.136992	N/A	0.002588	0.137140	0.096802				
XBarBar	2561.799	N/A	722.994	0.264	2561.783				
RBar	0.000	N/A	0.000	0.000	0.000				
Pp	0.608	N/A	32.200	0.608	0.861				
Ppk	-0.035	N/A	31.530	-0.034	-0.158				



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	5/6Y	5/6Z	5/6V	5/7X	5/7Y					
Nominal	-27.474	722.917	0.000	2562.157	-66.917					
Geo. Name	Y	Z	VECTOR	X	Y					
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250					
Comment				LOCATION OF POINT 5_7						
Device	CMM	CMM	CMM	CMM	CMM					
Piece 001	-27.475	-0.001	722.912	-0.005	0.298	0.298	2561.738	-0.419	-66.918	-0.001
Piece 002	-27.475	-0.001	722.909	-0.008	0.451	0.451	2561.718	-0.439	-66.918	-0.001
Piece 003	-27.475	-0.001	722.912	-0.005	0.301	0.301	2561.804	-0.353	-66.918	-0.001
Piece 004	-27.475	-0.001	722.913	-0.004	0.232	0.232	2561.727	-0.430	-66.918	-0.001
Piece 005	-27.475	-0.001	722.913	-0.004	0.200	0.200	2561.839	-0.318	-66.918	-0.001
Minimum	N/A	722.909	0.200	2561.718	N/A					
Maximum	N/A	722.913	0.451	2561.839	N/A					
Range	N/A	0.004	0.251	0.121	N/A					
Mean	N/A	722.912	0.296	2561.765	N/A					
Std. Dev.	N/A	0.001643	0.096650	0.053336	N/A					
Cr	N/A	0.020	1.160	0.640	N/A					
Cp	N/A	50.720	0.862	1.562	N/A					
Cpk Sigma +/- 3	N/A	49.660	-0.160	-0.886	N/A					
Std. Dev. (Range)	N/A	0.001643	0.096650	0.053336	N/A					
XBarBar	N/A	722.912	0.296	2561.765	N/A					
RBar	N/A	0.000	0.000	0.000	N/A					
Pp	N/A	50.720	0.862	1.562	N/A					
Ppk	N/A	49.665	-0.160	-0.886	N/A					



PART# HERE 1-1-2012/Full Layout/1/1/2012

COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	5/7Z		5/7V		5/8X		5/8Y		5/8Z	
Nominal	722.779		0.000		2562.218		-87.321		722.909	
Geo. Name	Z		VECTOR		X		Y		Z	
Tolerance	+/-0.250		+/-0.250		+/-0.250		+/-0.250		+/-0.250	
Comment					LOCATION OF POINT 5_8					
Device	CMM		CMM		CMM		CMM		CMM	
Piece 001	722.772	-0.007	0.419	0.419	2561.688	-0.530	-87.323	-0.002	722.899	-0.010
Piece 002	722.771	-0.008	0.439	0.439	2561.711	-0.507	-87.323	-0.002	722.900	-0.009
Piece 003	722.773	-0.006	0.353	0.353	2561.750	-0.468	-87.323	-0.002	722.900	-0.009
Piece 004	722.771	-0.008	0.430	0.430	2561.633	-0.585	-87.323	-0.002	722.898	-0.011
Piece 005	722.773	-0.006	0.318	0.318	2561.683	-0.535	-87.323	-0.002	722.899	-0.010
Minimum	722.771		0.318		2561.633		N/A		722.898	
Maximum	722.773		0.439		2561.750		N/A		722.900	
Range	0.002		0.121		0.117		N/A		0.002	
Mean	722.772		0.392		2561.693		N/A		722.899	
Std. Dev.	0.001000		0.053336		0.042714		N/A		0.000837	
Cr	0.012		0.640		0.513		N/A		0.010	
Cp	83.333		1.562		1.951		N/A		99.562	
Cpk Sigma +/- 3	81.000		-0.886		-2.146		N/A		95.698	
Std. Dev. (Range)	0.001000		0.053336		0.042714		N/A		0.000837	
XBarBar	722.772		0.392		2561.693		N/A		722.899	
RBar	0.000		0.000		0.000		N/A		0.000	
Pp	83.333		1.562		1.951		N/A		99.562	
Ppk	81.000		-0.886		-2.146		N/A		95.659	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	5/8V	6	6/1X	6/1Y	6/1Z				
Nominal	0.000		2563.372	-89.070	723.956				
Geo. Name	VECTOR	Note	X	Y	Z				
Tolerance	+/-0.250		+/-0.250	+/-0.250	+/-0.250				
Comment		PROFILE OF FLUSH TO	LOCATION OF POINT 6_1						
Device	CMM		CMM	CMM	CMM				
Piece 001	0.531	0.531	NOTED	2563.090	-0.282	-89.071	-0.001	723.586	-0.370
Piece 002	0.508	0.508	NOTED	2563.066	-0.306	-89.071	-0.001	723.554	-0.402
Piece 003	0.469	0.469	NOTED	2562.995	-0.377	-89.071	-0.001	723.461	-0.495
Piece 004	0.586	0.586	NOTED	2563.083	-0.289	-89.071	-0.001	723.576	-0.380
Piece 005	0.535	0.535	NOTED	2562.840	-0.532	-89.072	-0.002	723.258	-0.698
Minimum	0.469	N/A	2562.840	-89.072	723.258				
Maximum	0.586	N/A	2563.090	-89.071	723.586				
Range	0.117	N/A	0.250	0.001	0.328				
Mean	0.526	N/A	2563.015	-89.071	723.487				
Std. Dev.	0.042658	N/A	0.104732	0.000447	0.137230				
Cr	0.512	N/A	1.257	0.005	1.647				
Cp	1.954	N/A	0.796	186.428	0.607				
Cpk Sigma +/- 3	-2.155	N/A	-0.341	185.445	-0.532				
Std. Dev. (Range)	0.042658	N/A	0.104732	0.000447	0.137230				
XBarBar	0.526	N/A	2563.015	-89.071	723.487				
RBar	0.000	N/A	0.000	0.000	0.000				
Pp	1.954	N/A	0.796	186.428	0.607				
Ppk	-2.155	N/A	-0.341	185.533	-0.532				



PART# HERE 1-1-2012/Full Layout/1/1/2012

COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	6/1V	6/2X	6/2Y	6/2Z	6/2V					
Nominal	0.000	2563.247	-65.973	724.000	0.000					
Geo. Name	VECTOR	X	Y	Z	VECTOR					
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250					
Comment		LOCATION OF POINT 6_2								
Device	CMM	CMM	CMM	CMM	CMM					
Piece 001	-0.466	-0.466	2563.141	-0.106	-65.974	-0.001	723.865	-0.135	-0.172	-0.172
Piece 002	-0.506	-0.506	2563.104	-0.143	-65.974	-0.001	723.818	-0.182	-0.231	-0.231
Piece 003	-0.622	-0.622	2563.099	-0.148	-65.974	-0.001	723.812	-0.188	-0.239	-0.239
Piece 004	-0.478	-0.478	2563.129	-0.118	-65.974	-0.001	723.851	-0.149	-0.190	-0.190
Piece 005	-0.878	-0.878	2563.063	-0.184	-65.974	-0.001	723.767	-0.233	-0.297	-0.297
Minimum	-0.878		2563.063		N/A		723.767		-0.297	
Maximum	-0.466		2563.141		N/A		723.865		-0.172	
Range	0.412		0.078		N/A		0.098		0.125	
Mean	-0.590		2563.107		N/A		723.823		-0.226	
Std. Dev.	0.172441		0.030203		N/A		0.038175		0.048597	
Cr	2.069		0.362		N/A		0.458		0.583	
Cp	0.483		2.759		N/A		2.183		1.715	
Cpk Sigma +/- 3	-0.657		1.216		N/A		0.634		0.166	
Std. Dev. (Range)	0.172441		0.030203		N/A		0.038175		0.048597	
XBarBar	-0.590		2563.107		N/A		723.823		-0.226	
RBar	0.000		0.000		N/A		0.000		0.000	
Pp	0.483		2.759		N/A		2.183		1.715	
Ppk	-0.657		1.216		N/A		0.634		0.166	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	6/3X	6/3Y	6/3Z	6/3V	6/4X				
Nominal	2563.241	-37.067	723.953	0.000	2563.317				
Geo. Name	X	Y	Z	VECTOR	X				
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250				
Comment	LOCATION OF POINT 6_3				LOCATION OF POINT 6_4				
Device	CMM	CMM	CMM	CMM	CMM				
Piece 001	2563.260	0.019	-37.067	723.977	0.024	0.031	0.031	2563.342	0.025
Piece 002	2563.160	-0.081	-37.067	723.853	-0.100	-0.129	-0.129	2563.179	-0.138
Piece 003	2563.228	-0.013	-37.067	723.937	-0.016	-0.021	-0.021	2563.264	-0.053
Piece 004	2563.235	-0.006	-37.067	723.945	-0.008	-0.010	-0.010	2563.322	0.005
Piece 005	2563.288	0.047	-37.067	724.010	0.057	0.074	0.074	2563.342	0.025
Minimum	2563.160	N/A	723.853	-0.129	2563.179				
Maximum	2563.288	N/A	724.010	0.074	2563.342				
Range	0.128	N/A	0.157	0.203	0.163				
Mean	2563.234	N/A	723.944	-0.011	2563.290				
Std. Dev.	0.047710	N/A	0.058684	0.075852	0.069694				
Cr	0.573	N/A	0.704	0.910	0.836				
Cp	1.747	N/A	1.420	1.099	1.196				
Cpk Sigma +/- 3	1.699	N/A	1.371	1.050	1.066				
Std. Dev. (Range)	0.047710	N/A	0.058684	0.075852	0.069694				
XBarBar	2563.234	N/A	723.944	-0.011	2563.290				
RBar	0.000	N/A	0.000	0.000	0.000				
Pp	1.747	N/A	1.420	1.099	1.196				
Ppk	1.699	N/A	1.371	1.050	1.066				



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	6/4Y	6/4Z	6/4V	6/5X	6/5Y
Nominal	-10.408	723.866	0.000	2563.339	12.229
Geo. Name	Y	Z	VECTOR	X	Y
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250
Comment				LOCATION OF POINT 6_5	
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	-10.408	723.897	0.031	2563.379	12.229
Piece 002	-10.408	723.697	-0.169	2563.191	12.229
Piece 003	-10.408	723.802	-0.064	2563.274	12.229
Piece 004	-10.408	723.872	0.006	2563.380	12.229
Piece 005	-10.408	723.897	0.031	2563.339	12.229
Minimum	N/A	723.697	-0.219	2563.191	N/A
Maximum	N/A	723.897	0.040	2563.380	N/A
Range	N/A	0.200	0.259	0.189	N/A
Mean	N/A	723.833	-0.043	2563.313	N/A
Std. Dev.	N/A	0.085396	0.110328	0.080507	N/A
Cr	N/A	1.025	1.324	0.966	N/A
Cp	N/A	0.976	0.755	1.035	N/A
Cpk Sigma +/- 3	N/A	0.847	0.625	0.926	N/A
Std. Dev. (Range)	N/A	0.085396	0.110328	0.080507	N/A
XBarBar	N/A	723.833	-0.043	2563.313	N/A
RBar	N/A	0.000	0.000	0.000	N/A
Pp	N/A	0.976	0.755	1.035	N/A
Ppk	N/A	0.847	0.625	0.926	N/A



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	6/5Z		6/5V		6/6X		6/6Y		6/6Z	
Nominal	723.849		0.000		2563.440		49.173		723.813	
Geo. Name	Z		VECTOR		X		Y		Z	
Tolerance	+/-0.250		+/-0.250		+/-0.250		+/-0.250		+/-0.250	
Comment					LOCATION OF POINT 6_6					
Device	CMM		CMM		CMM		CMM		CMM	
Piece 001	723.898	0.049	0.063	0.063	2563.382	-0.058	49.173		723.740	-0.073
Piece 002	723.667	-0.182	-0.234	-0.234	2563.318	-0.122	49.173		723.659	-0.154
Piece 003	723.769	-0.080	-0.103	-0.103	2563.346	-0.094	49.173		723.695	-0.118
Piece 004	723.898	0.049	0.064	0.064	2563.561	0.121	49.172	-0.001	723.965	0.152
Piece 005	723.848	-0.001	-0.001	-0.001	2563.367	-0.073	49.173		723.721	-0.092
Minimum	723.667		-0.234		2563.318		49.172		723.659	
Maximum	723.898		0.064		2563.561		49.173		723.965	
Range	0.231		0.298		0.243		0.001		0.306	
Mean	723.816		-0.042		2563.395		49.173		723.756	
Std. Dev.	0.098593		0.127011		0.095967		0.000447		0.120719	
Cr	1.183		1.524		1.152		0.005		1.449	
Cp	0.845		0.656		0.868		186.428		0.690	
Cpk Sigma +/- 3	0.734		0.545		0.711		186.190		0.533	
Std. Dev. (Range)	0.098593		0.127011		0.095967		0.000447		0.120719	
XBarBar	723.816		-0.042		2563.395		49.173		723.756	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	0.845		0.656		0.868		186.428		0.690	
Ppk	0.734		0.545		0.711		186.279		0.533	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	6/6V	6/7X	6/7Y	6/7Z	6/7V					
Nominal	0.000	2563.336	83.440	723.970	0.000					
Geo. Name	VECTOR	X	Y	Z	VECTOR					
Tolerance	+/-0.250	+/-0.250	+/-0.250	+/-0.250	+/-0.250					
Comment		LOCATION OF POINT 6_7								
Device	CMM	CMM	CMM	CMM	CMM					
Piece 001	-0.093	-0.093	2562.785	-0.551	83.442	0.002	723.254	-0.716	-0.903	-0.903
Piece 002	-0.197	-0.197	2563.134	-0.202	83.441	0.001	723.707	-0.263	-0.332	-0.332
Piece 003	-0.150	-0.150	2562.953	-0.383	83.441	0.001	723.472	-0.498	-0.629	-0.629
Piece 004	0.195	0.195	2563.333	-0.003	83.440		723.966	-0.004	-0.005	-0.005
Piece 005	-0.118	-0.118	2562.925	-0.411	83.441	0.001	723.435	-0.535	-0.675	-0.675
Minimum	-0.197		2562.785		83.440		723.254		-0.903	
Maximum	0.195		2563.333		83.442		723.966		-0.005	
Range	0.392		0.548		0.002		0.712		0.898	
Mean	-0.073		2563.026		83.441		723.567		-0.509	
Std. Dev.	0.154558		0.211851		0.000707		0.275327		0.347324	
Cr	1.855		2.542		0.008		3.304		4.168	
Cp	0.539		0.393		117.869		0.303		0.240	
Cpk Sigma +/- 3	0.383		-0.094		117.380		-0.185		-0.248	
Std. Dev. (Range)	0.154558		0.211851		0.000707		0.275327		0.347324	
XBarBar	-0.073		2563.026		83.441		723.567		-0.509	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	0.539		0.393		117.869		0.303		0.240	
Ppk	0.383		-0.094		117.397		-0.185		-0.248	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	7	7/1X	7/1Y	7/1Z	7/1V				
Nominal		2595.121	79.222	710.281	0.000				
Geo. Name	Note	X	Y	Z	VECTOR				
Tolerance		+/-2.000	+/-2.000	+/-2.000	+/-2.000				
Comment	PROFILE OF TRIM TO	LOCATION OF POINT 7_1							
Device		CMM	CMM	CMM	CMM				
Piece 001	NOTED	2594.932	-0.189	79.252	0.030	710.376	0.095	-0.213	-0.213
Piece 002	NOTED	2594.676	-0.445	79.292	0.070	710.504	0.223	-0.502	-0.502
Piece 003	NOTED	2594.779	-0.342	79.276	0.054	710.452	0.171	-0.386	-0.386
Piece 004	NOTED	2595.249	0.128	79.201	-0.021	710.217	-0.064	0.145	0.145
Piece 005	NOTED	2594.815	-0.306	79.270	0.048	710.434	0.153	-0.345	-0.345
Minimum	N/A	2594.676		79.201		710.217		-0.502	
Maximum	N/A	2595.249		79.292		710.504		0.145	
Range	N/A	0.573		0.091		0.287		0.647	
Mean	N/A	2594.890		79.258		710.397		-0.260	
Std. Dev.	N/A	0.220447		0.035031		0.110321		0.248947	
Cr	N/A	0.331		0.053		0.165		0.373	
Cp	N/A	3.024		19.031		6.043		2.678	
Cpk Sigma +/- 3	N/A	2.675		18.686		5.694		2.330	
Std. Dev. (Range)	N/A	0.220447		0.035031		0.110321		0.248947	
XBarBar	N/A	2594.890		79.258		710.397		-0.260	
RBar	N/A	0.000		0.000		0.000		0.000	
Pp	N/A	3.024		19.031		6.043		2.678	
Ppk	N/A	2.675		18.686		5.694		2.330	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	7/2X	7/2Y	7/2Z	7/2V	7/3X					
Nominal	2591.667	45.563	711.790	0.000	2590.366					
Geo. Name	X	Y	Z	VECTOR	X					
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000					
Comment	LOCATION OF POINT 7_2				LOCATION OF POINT 7_3					
Device	CMM	CMM	CMM	CMM	CMM					
Piece 001	2591.460	-0.207	45.582	0.019	711.893	0.103	-0.232	-0.232	2590.166	-0.200
Piece 002	2591.284	-0.383	45.598	0.035	711.981	0.191	-0.429	-0.429	2590.023	-0.343
Piece 003	2591.380	-0.287	45.589	0.026	711.933	0.143	-0.321	-0.321	2590.126	-0.240
Piece 004	2591.735	0.068	45.557	-0.006	711.755	-0.035	0.077	0.077	2590.384	0.018
Piece 005	2591.424	-0.243	45.585	0.022	711.911	0.121	-0.272	-0.272	2590.178	-0.188
Minimum	2591.284		45.557		711.755		-0.429		2590.023	
Maximum	2591.735		45.598		711.981		0.077		2590.384	
Range	0.451		0.041		0.226		0.506		0.361	
Mean	2591.457		45.582		711.895		-0.235		2590.175	
Std. Dev.	0.168996		0.015320		0.084704		0.189574		0.131601	
Cr	0.253		0.023		0.127		0.284		0.197	
Cp	3.945		43.516		7.871		3.517		5.066	
Cpk Sigma +/- 3	3.530		43.099		7.459		3.103		4.583	
Std. Dev. (Range)	0.168996		0.015320		0.084704		0.189574		0.131601	
XBarBar	2591.457		45.582		711.895		-0.235		2590.175	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	3.945		43.516		7.871		3.517		5.066	
Ppk	3.530		43.098		7.459		3.103		4.583	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	7/3Y	7/3Z	7/3V	7/4X	7/4Y
Nominal	22.272	712.357	0.000	2590.533	-26.424
Geo. Name	Y	Z	VECTOR	X	Y
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000
Comment	LOCATION OF POINT 7_4				
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	22.280	712.457	0.100	2590.311	-26.436
Piece 002	22.287	712.528	0.171	2590.235	-26.440
Piece 003	22.282	712.477	0.120	2590.340	-26.435
Piece 004	22.271	712.348	-0.009	2590.392	-26.432
Piece 005	22.280	712.451	0.094	2590.395	-26.432
Minimum	22.271	712.348	-0.384	2590.235	-26.440
Maximum	22.287	712.528	0.020	2590.395	-26.432
Range	0.016	0.180	0.404	0.160	0.008
Mean	22.280	712.452	-0.213	2590.335	-26.435
Std. Dev.	0.005788	0.065656	0.147194	0.066048	0.003317
Cr	0.009	0.098	0.221	0.099	0.005
Cp	115.181	10.154	4.529	10.094	200.985
Cpk Sigma +/- 3	114.722	9.671	4.047	9.092	199.902
Std. Dev. (Range)	0.005788	0.065656	0.147194	0.066048	0.003317
XBarBar	22.280	712.452	-0.213	2590.335	-26.435
RBar	0.000	0.000	0.000	0.000	0.000
Pp	115.181	10.154	4.529	10.094	200.985
Ppk	114.720	9.671	4.047	9.092	199.879



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	7/4Z		7/4V		7/5X		7/5Y		7/5Z	
Nominal	712.284		0.000		2593.316		-63.874		711.071	
Geo. Name	Z		VECTOR		X		Y		Z	
Tolerance	+/-2.000		+/-2.000		+/-2.000		+/-2.000		+/-2.000	
Comment					LOCATION OF POINT 7_5					
Device	CMM		CMM		CMM		CMM		CMM	
Piece 001	712.395	0.111	-0.248	-0.248	2593.047	-0.269	-63.908	-0.034	711.206	0.135
Piece 002	712.433	0.149	-0.332	-0.332	2593.044	-0.272	-63.908	-0.034	711.207	0.136
Piece 003	712.381	0.097	-0.216	-0.216	2593.139	-0.177	-63.896	-0.022	711.160	0.089
Piece 004	712.355	0.071	-0.157	-0.157	2593.026	-0.290	-63.911	-0.037	711.217	0.146
Piece 005	712.353	0.069	-0.154	-0.154	2593.205	-0.111	-63.888	-0.014	711.127	0.056
Minimum	712.353		-0.332		2593.026		-63.911		711.127	
Maximum	712.433		-0.154		2593.205		-63.888		711.217	
Range	0.080		0.178		0.179		0.023		0.090	
Mean	712.383		-0.221		2593.092		-63.902		711.183	
Std. Dev.	0.032906		0.073585		0.076914		0.009808		0.038488	
Cr	0.049		0.110		0.115		0.015		0.058	
Cp	20.260		9.060		8.668		67.972		17.321	
Cpk Sigma +/- 3	19.253		8.057		7.698		67.012		16.348	
Std. Dev. (Range)	0.032906		0.073585		0.076914		0.009808		0.038488	
XBarBar	712.383		-0.221		2593.092		-63.902		711.183	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	20.260		9.060		8.668		67.972		17.321	
Ppk	19.253		8.057		7.698		67.013		16.348	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	7/5V	7/6X	7/6Y	7/6Z	7/6V					
Nominal	0.000	2595.853	-84.673	709.957	0.000					
Geo. Name	VECTOR	X	Y	Z	VECTOR					
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000					
Comment		LOCATION OF POINT 7_6								
Device	CMM	CMM	CMM	CMM	CMM					
Piece 001	-0.303	-0.303	2595.573	-0.280	-84.721	-0.048	710.097	0.140	-0.317	-0.317
Piece 002	-0.306	-0.306	2595.612	-0.241	-84.714	-0.041	710.078	0.121	-0.273	-0.273
Piece 003	-0.199	-0.199	2595.704	-0.149	-84.699	-0.026	710.032	0.075	-0.168	-0.168
Piece 004	-0.327	-0.327	2595.495	-0.358	-84.734	-0.061	710.136	0.179	-0.405	-0.405
Piece 005	-0.126	-0.126	2595.788	-0.065	-84.684	-0.011	709.989	0.032	-0.073	-0.073
Minimum	-0.327		2595.495		-84.734		709.989		-0.405	
Maximum	-0.126		2595.788		-84.684		710.136		-0.073	
Range	0.201		0.293		0.050		0.147		0.332	
Mean	-0.252		2595.634		-84.710		710.066		-0.247	
Std. Dev.	0.086352		0.114172		0.019424		0.057204		0.129477	
Cr	0.130		0.171		0.029		0.086		0.194	
Cp	7.720		5.839		34.322		11.654		5.149	
Cpk Sigma +/- 3	6.747		5.201		33.680		11.017		4.513	
Std. Dev. (Range)	0.086352		0.114172		0.019424		0.057204		0.129477	
XBarBar	-0.252		2595.634		-84.710		710.066		-0.247	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	7.720		5.839		34.322		11.654		5.149	
Ppk	6.747		5.201		33.680		11.017		4.513	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8	8/1X	8/1Y	8/1Z	8/1V				
Nominal		2592.497	-83.470	710.979	0.000				
Geo. Name	Note	X	Y	Z	VECTOR				
Tolerance		+/-2.000	+/-2.000	+/-2.000	+/-2.000				
Comment	PROFILE OF SURFACE TO	LOCATION OF POINT 8_1							
Device		CMM	CMM	CMM	CMM				
Piece 001	NOTED	2592.372	-0.125	-83.462	0.008	710.562	-0.417	-0.436	-0.436
Piece 002	NOTED	2592.364	-0.133	-83.462	0.008	710.537	-0.442	-0.461	-0.461
Piece 003	NOTED	2592.354	-0.143	-83.461	0.009	710.501	-0.478	-0.499	-0.499
Piece 004	NOTED	2592.457	-0.040	-83.468	0.002	710.847	-0.132	-0.138	-0.138
Piece 005	NOTED	2592.287	-0.210	-83.457	0.013	710.277	-0.702	-0.732	-0.732
Minimum	N/A	2592.287		-83.468		710.277		-0.732	
Maximum	N/A	2592.457		-83.457		710.847		-0.138	
Range	N/A	0.170		0.011		0.570		0.594	
Mean	N/A	2592.367		-83.462		710.545		-0.453	
Std. Dev.	N/A	0.060628		0.003937		0.203296		0.211858	
Cr	N/A	0.091		0.006		0.305		0.318	
Cp	N/A	10.996		169.334		3.279		3.147	
Cpk Sigma +/- 3	N/A	10.280		168.656		2.567		2.434	
Std. Dev. (Range)	N/A	0.060628		0.003937		0.203296		0.211858	
XBarBar	N/A	2592.367		-83.462		710.545		-0.453	
RBar	N/A	0.000		0.000		0.000		0.000	
Pp	N/A	10.996		169.334		3.279		3.147	
Ppk	N/A	10.280		168.656		2.567		2.434	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/2X	8/2Y	8/2Z	8/2V	8/3X					
Nominal	2577.196	-86.262	716.178	0.000	2565.425					
Geo. Name	X	Y	Z	VECTOR	X					
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000					
Comment	LOCATION OF POINT 8_2				LOCATION OF POINT 8_3					
Device	CMM	CMM	CMM	CMM	CMM					
Piece 001	2577.014	-0.182	-86.261	0.001	715.740	-0.438	-0.475	-0.475	2565.153	-0.272
Piece 002	2576.997	-0.199	-86.261	0.001	715.701	-0.477	-0.517	-0.517	2565.131	-0.294
Piece 003	2576.964	-0.232	-86.260	0.002	715.619	-0.559	-0.605	-0.605	2565.066	-0.359
Piece 004	2577.072	-0.124	-86.261	0.001	715.879	-0.299	-0.324	-0.324	2565.162	-0.263
Piece 005	2576.864	-0.332	-86.260	0.002	715.379	-0.799	-0.866	-0.866	2564.921	-0.504
Minimum	2576.864		-86.261		715.379		-0.866		2564.921	
Maximum	2577.072		-86.260		715.879		-0.324		2565.162	
Range	0.208		0.001		0.500		0.542		0.241	
Mean	2576.982		-86.261		715.664		-0.557		2565.087	
Std. Dev.	0.076806		0.000548		0.184810		0.200248		0.099891	
Cr	0.115		0.001		0.277		0.300		0.150	
Cp	8.680		1216.545		3.607		3.329		6.674	
Cpk Sigma +/- 3	7.752		1216.309		2.680		2.401		5.545	
Std. Dev. (Range)	0.076806		0.000548		0.184810		0.200248		0.099891	
XBarBar	2576.982		-86.261		715.664		-0.557		2565.087	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	8.680		1216.545		3.607		3.329		6.674	
Ppk	7.752		1215.693		2.680		2.401		5.545	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/3Y	8/3Z	8/3V	8/4X	8/4Y
Nominal	-88.753	722.468	0.000	2565.310	-48.250
Geo. Name	Y	Z	VECTOR	X	Y
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000
Comment	LOCATION OF POINT 8_4				
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	-88.754	722.073	-0.480	2565.298	-48.250
Piece 002	-88.754	722.041	-0.519	2565.239	-48.250
Piece 003	-88.755	721.947	-0.632	2565.278	-48.250
Piece 004	-88.754	722.086	-0.464	2565.287	-48.250
Piece 005	-88.756	721.735	-0.890	2565.307	-48.250
Minimum	-88.756	721.735	-0.890	2565.239	N/A
Maximum	-88.754	722.086	-0.464	2565.307	N/A
Range	0.002	0.351	0.426	0.068	N/A
Mean	-88.755	721.976	-0.597	2565.282	N/A
Std. Dev.	0.000894	0.145478	0.176448	0.026319	N/A
Cr	0.001	0.218	0.265	0.039	N/A
Cp	745.712	4.583	3.778	25.330	N/A
Cpk Sigma +/- 3	744.760	3.456	2.650	24.973	N/A
Std. Dev. (Range)	0.000894	0.145478	0.176448	0.026319	N/A
XBarBar	-88.755	721.976	-0.597	2565.282	N/A
RBar	0.000	0.000	0.000	0.000	N/A
Pp	745.712	4.583	3.778	25.330	N/A
Ppk	745.116	3.456	2.650	24.973	N/A



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/4Z		8/4V		8/5X		8/5Y		8/5Z	
Nominal	722.409		0.000		2575.581		-48.250		716.897	
Geo. Name	Z		VECTOR		X		Y		Z	
Tolerance	+/-2.000		+/-2.000		+/-2.000		+/-2.000		+/-2.000	
Comment					LOCATION OF POINT 8_5					
Device	CMM		CMM		CMM		CMM		CMM	
Piece 001	722.392	-0.017	-0.021	-0.021	2575.587	0.006	-48.250		716.913	0.016
Piece 002	722.308	-0.101	-0.123	-0.123	2575.563	-0.018	-48.250		716.854	-0.043
Piece 003	722.363	-0.046	-0.056	-0.056	2575.581		-48.250		716.896	-0.001
Piece 004	722.376	-0.033	-0.040	-0.040	2575.604	0.023	-48.250		716.953	0.056
Piece 005	722.404	-0.005	-0.006	-0.006	2575.597	0.016	-48.250		716.937	0.040
Minimum	722.308		-0.123		2575.563		N/A		716.854	
Maximum	722.404		-0.006		2575.604		N/A		716.953	
Range	0.096		0.117		0.041		N/A		0.099	
Mean	722.369		-0.049		2575.586		N/A		716.911	
Std. Dev.	0.037280		0.045384		0.015805		N/A		0.038462	
Cr	0.056		0.068		0.024		N/A		0.058	
Cp	17.883		14.689		42.181		N/A		17.333	
Cpk Sigma +/- 3	17.521		14.328		42.067		N/A		17.215	
Std. Dev. (Range)	0.037280		0.045384		0.015805		N/A		0.038462	
XBarBar	722.369		-0.049		2575.586		N/A		716.911	
RBar	0.000		0.000		0.000		N/A		0.000	
Pp	17.883		14.689		42.181		N/A		17.333	
Ppk	17.521		14.328		42.067		N/A		17.215	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/5V	8/6X	8/6Y	8/6Z	8/6V
Nominal	0.000	2589.620	-48.250	712.326	0.000
Geo. Name	VECTOR	X	Y	Z	VECTOR
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000
Comment		LOCATION OF POINT 8_6			
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	0.017	2589.629	-48.250	712.358	0.033
Piece 002	-0.046	2589.626	-48.250	712.347	0.022
Piece 003	-0.001	2589.639	-48.251	712.396	0.072
Piece 004	0.060	2589.645	-48.251	712.416	0.093
Piece 005	0.043	2589.657	-48.251	712.458	0.136
Minimum	-0.046	2589.626	-48.251	712.347	0.022
Maximum	0.060	2589.657	-48.250	712.458	0.136
Range	0.106	0.031	0.001	0.111	0.114
Mean	0.015	2589.639	-48.251	712.395	0.071
Std. Dev.	0.041198	0.012538	0.000548	0.044956	0.046246
Cr	0.062	0.019	0.001	0.067	0.069
Cp	16.182	53.172	1216.545	14.829	14.416
Cpk Sigma +/- 3	16.064	52.661	1216.796	14.318	13.902
Std. Dev. (Range)	0.041198	0.012538	0.000548	0.044956	0.046246
XBarBar	0.015	2589.639	-48.251	712.395	0.071
RBar	0.000	0.000	0.000	0.000	0.000
Pp	16.182	53.172	1216.545	14.829	14.416
Ppk	16.064	52.661	1216.180	14.318	13.902



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/7X	8/7Y	8/7Z	8/7V	8/8X				
Nominal	2587.628	-16.750	713.124	0.000	2575.067				
Geo. Name	X	Y	Z	VECTOR	X				
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000				
Comment	LOCATION OF POINT 8_7				LOCATION OF POINT 8_8				
Device	CMM	CMM	CMM	CMM	CMM				
Piece 001	2587.641	0.013	-16.750	713.173	0.049	0.051	0.051	2575.093	0.026
Piece 002	2587.622	-0.006	-16.750	713.103	-0.021	-0.022	-0.022	2575.037	-0.030
Piece 003	2587.637	0.009	-16.750	713.156	0.032	0.033	0.033	2575.068	0.001
Piece 004	2587.644	0.016	-16.750	713.182	0.058	0.060	0.060	2575.089	0.022
Piece 005	2587.658	0.030	-16.750	713.234	0.110	0.114	0.114	2575.106	0.039
Minimum	2587.622	N/A	713.103	-0.022	2575.037				
Maximum	2587.658	N/A	713.234	0.114	2575.106				
Range	0.036	N/A	0.131	0.136	0.069				
Mean	2587.640	N/A	713.170	0.047	2575.079				
Std. Dev.	0.012973	N/A	0.047258	0.049068	0.026969				
Cr	0.019	N/A	0.071	0.074	0.040				
Cp	51.389	N/A	14.107	13.587	24.720				
Cpk Sigma +/- 3	51.070	N/A	13.785	13.266	24.577				
Std. Dev. (Range)	0.012973	N/A	0.047258	0.049068	0.026969				
XBarBar	2587.640	N/A	713.170	0.047	2575.079				
RBar	0.000	N/A	0.000	0.000	0.000				
Pp	51.389	N/A	14.107	13.587	24.720				
Ppk	51.070	N/A	13.785	13.266	24.576				



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/8Y	8/8Z	8/8V	8/9X	8/9Y
Nominal	-16.750	717.133	0.000	2564.306	-16.750
Geo. Name	Y	Z	VECTOR	X	Y
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000
Comment				LOCATION OF POINT 8_9	
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	-16.750	717.197	0.064	2564.332	-16.750
Piece 002	-16.750	717.058	-0.075	2564.192	-16.750
Piece 003	-16.750	717.135	0.002	2564.272	-16.750
Piece 004	-16.750	717.187	0.054	2564.309	-16.750
Piece 005	-16.750	717.230	0.097	2564.347	-16.750
Minimum	N/A	717.058	-0.080	2564.192	N/A
Maximum	N/A	717.230	0.106	2564.347	N/A
Range	N/A	0.172	0.186	0.155	N/A
Mean	N/A	717.161	0.032	2564.290	N/A
Std. Dev.	N/A	0.067114	0.072514	0.061849	N/A
Cr	N/A	0.101	0.109	0.093	N/A
Cp	N/A	9.933	9.194	10.779	N/A
Cpk Sigma +/- 3	N/A	9.792	9.048	10.695	N/A
Std. Dev. (Range)	N/A	0.067114	0.072514	0.061849	N/A
XBarBar	N/A	717.161	0.032	2564.290	N/A
RBar	N/A	0.000	0.000	0.000	N/A
Pp	N/A	9.933	9.194	10.779	N/A
Ppk	N/A	9.792	9.048	10.695	N/A



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/9Z	8/9V	8/10X	8/10Y	8/10Z
Nominal	723.089	0.000	2564.320	20.000	723.081
Geo. Name	Z	VECTOR	X	Y	Z
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000
Comment	LOCATION OF POINT 8_10				
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	723.124	0.044	2564.367	20.000	723.143
Piece 002	722.940	-0.188	2564.192	20.000	722.914
Piece 003	723.045	-0.056	2564.266	20.000	723.010
Piece 004	723.093	0.005	2564.382	20.000	723.162
Piece 005	723.142	0.067	2564.319	20.000	723.080
Minimum	722.940	-0.188	2564.192	N/A	722.914
Maximum	723.142	0.067	2564.382	N/A	723.162
Range	0.202	0.255	0.190	N/A	0.248
Mean	723.069	-0.026	2564.305	N/A	723.062
Std. Dev.	0.080850	0.102046	0.077876	N/A	0.101849
Cr	0.121	0.153	0.117	N/A	0.153
Cp	8.246	6.533	8.561	N/A	6.546
Cpk Sigma +/- 3	8.162	6.449	8.497	N/A	6.483
Std. Dev. (Range)	0.080850	0.102046	0.077876	N/A	0.101849
XBarBar	723.069	-0.026	2564.305	N/A	723.062
RBar	0.000	0.000	0.000	N/A	0.000
Pp	8.246	6.533	8.561	N/A	6.546
Ppk	8.162	6.449	8.497	N/A	6.483



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/10V	8/11X	8/11Y	8/11Z	8/11V				
Nominal	0.000	2575.144	20.000	717.100	0.000				
Geo. Name	VECTOR	X	Y	Z	VECTOR				
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000				
Comment		LOCATION OF POINT 8_11							
Device	CMM	CMM	CMM	CMM	CMM				
Piece 001	0.078	0.078	2575.184	0.040	20.000	717.200	0.100	0.108	0.108
Piece 002	-0.211	-0.211	2575.109	-0.035	20.000	717.013	-0.087	-0.094	-0.094
Piece 003	-0.090	-0.090	2575.130	-0.014	20.000	717.066	-0.034	-0.037	-0.037
Piece 004	0.102	0.102	2575.185	0.041	20.000	717.201	0.101	0.109	0.109
Piece 005	-0.002	-0.002	2575.153	0.009	20.000	717.122	0.022	0.024	0.024
Minimum	-0.211		2575.109		N/A	717.013		-0.094	
Maximum	0.102		2575.185		N/A	717.201		0.109	
Range	0.313		0.076		N/A	0.188		0.203	
Mean	-0.025		2575.152		N/A	717.120		0.022	
Std. Dev.	0.128537		0.033342		N/A	0.082658		0.089311	
Cr	0.193		0.050		N/A	0.124		0.134	
Cp	5.187		19.995		N/A	8.065		7.465	
Cpk Sigma +/- 3	5.123		19.913		N/A	7.983		7.382	
Std. Dev. (Range)	0.128537		0.033342		N/A	0.082658		0.089311	
XBarBar	-0.025		2575.152		N/A	717.120		0.022	
RBar	0.000		0.000		N/A	0.000		0.000	
Pp	5.187		19.995		N/A	8.065		7.465	
Ppk	5.123		19.913		N/A	7.983		7.382	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/12X		8/12Y		8/12Z		8/12V		8/13X	
Nominal	2588.300		20.000		712.926		0.000		2589.655	
Geo. Name	X		Y		Z		VECTOR		X	
Tolerance	+/-2.000		+/-2.000		+/-2.000		+/-2.000		+/-2.000	
Comment	LOCATION OF POINT 8_12								LOCATION OF POINT 8_13	
Device	CMM		CMM		CMM		CMM		CMM	
Piece 001	2588.330	0.030	20.001	0.001	713.038	0.112	0.116	0.116	2589.647	-0.008
Piece 002	2588.292	-0.008	20.000		712.896	-0.030	-0.031	-0.031	2589.663	0.008
Piece 003	2588.296	-0.004	20.000		712.910	-0.016	-0.016	-0.016	2589.636	-0.019
Piece 004	2588.320	0.020	20.000		713.000	0.074	0.077	0.077	2589.703	0.048
Piece 005	2588.303	0.003	20.000		712.936	0.010	0.010	0.010	2589.641	-0.014
Minimum	2588.292		20.000		712.896		-0.031		2589.636	
Maximum	2588.330		20.001		713.038		0.116		2589.703	
Range	0.038		0.001		0.142		0.147		0.067	
Mean	2588.308		20.000		712.956		0.031		2589.658	
Std. Dev.	0.016223		0.000447		0.060778		0.062918		0.027129	
Cr	0.024		0.001		0.091		0.094		0.041	
Cp	41.094		1491.424		10.969		10.596		24.574	
Cpk Sigma +/- 3	40.924		1490.563		10.804		10.430		24.537	
Std. Dev. (Range)	0.016223		0.000447		0.060778		0.062918		0.027129	
XBarBar	2588.308		20.000		712.956		0.031		2589.658	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	41.094		1491.424		10.969		10.596		24.574	
Ppk	40.925		1491.275		10.804		10.431		24.537	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/13Y	8/13Z	8/13V	8/14X	8/14Y				
Nominal	55.000	712.236	0.000	2575.990	55.000				
Geo. Name	Y	Z	VECTOR	X	Y				
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000				
Comment				LOCATION OF POINT 8_14					
Device	CMM	CMM	CMM	CMM	CMM				
Piece 001	55.000	712.209	-0.027	-0.029	-0.029	2575.947	-0.043	55.000	
Piece 002	55.000	712.264	0.028	0.029	0.029	2575.971	-0.019	55.000	
Piece 003	54.999	-0.001	712.169	-0.067	-0.070	-0.070	2575.942	-0.048	55.000
Piece 004	55.002	0.002	712.404	0.168	0.174	0.174	2576.061	0.071	55.000
Piece 005	54.999	-0.001	712.187	-0.049	-0.051	-0.051	2575.946	-0.044	55.000
Minimum	54.999	712.169	-0.070	2575.942	N/A				
Maximum	55.002	712.404	0.174	2576.061	N/A				
Range	0.003	0.235	0.244	0.119	N/A				
Mean	55.000	712.247	0.011	2575.973	N/A				
Std. Dev.	0.001225	0.094954	0.098612	0.050282	N/A				
Cr	0.002	0.142	0.148	0.075	N/A				
Cp	544.218	7.021	6.761	13.259	N/A				
Cpk Sigma +/- 3	544.331	6.984	6.725	13.148	N/A				
Std. Dev. (Range)	0.001225	0.094954	0.098612	0.050282	N/A				
XBarBar	55.000	712.247	0.011	2575.973	N/A				
RBar	0.000	0.000	0.000	0.000	N/A				
Pp	544.218	7.021	6.761	13.259	N/A				
Ppk	544.218	6.984	6.725	13.149	N/A				



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/14Z		8/14V		8/15X		8/15Y		8/15Z	
Nominal	716.723		0.000		2564.505		55.000		723.010	
Geo. Name	Z		VECTOR		X		Y		Z	
Tolerance	+/-2.000		+/-2.000		+/-2.000		+/-2.000		+/-2.000	
Comment					LOCATION OF POINT 8_15					
Device	CMM		CMM		CMM		CMM		CMM	
Piece 001	716.617	-0.106	-0.114	-0.114	2564.395	-0.110	55.000		722.861	-0.149
Piece 002	716.675	-0.048	-0.051	-0.051	2564.386	-0.119	55.000		722.849	-0.161
Piece 003	716.604	-0.119	-0.128	-0.128	2564.387	-0.118	55.000		722.850	-0.160
Piece 004	716.898	0.175	0.190	0.190	2564.617	0.112	55.000		723.160	0.150
Piece 005	716.615	-0.108	-0.116	-0.116	2564.396	-0.109	55.000		722.863	-0.147
Minimum	716.604		-0.128		2564.386		N/A		722.849	
Maximum	716.898		0.190		2564.617		N/A		723.160	
Range	0.294		0.318		0.231		N/A		0.311	
Mean	716.682		-0.044		2564.436		N/A		722.917	
Std. Dev.	0.123999		0.134113		0.101172		N/A		0.136210	
Cr	0.186		0.201		0.152		N/A		0.204	
Cp	5.376		4.971		6.589		N/A		4.894	
Cpk Sigma +/- 3	5.266		4.862		6.363		N/A		4.666	
Std. Dev. (Range)	0.123999		0.134113		0.101172		N/A		0.136210	
XBarBar	716.682		-0.044		2564.436		N/A		722.917	
RBar	0.000		0.000		0.000		N/A		0.000	
Pp	5.376		4.971		6.589		N/A		4.894	
Ppk	5.266		4.862		6.363		N/A		4.666	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/15V	8/16X	8/16Y	8/16Z	8/16V					
Nominal	0.000	2564.563	87.402	723.069	0.000					
Geo. Name	VECTOR	X	Y	Z	VECTOR					
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000					
Comment	LOCATION OF POINT 8_16									
Device	CMM	CMM	CMM	CMM	CMM					
Piece 001	-0.185	-0.185	2563.961	-0.602	87.405	0.003	722.232	-0.837	-1.032	-1.032
Piece 002	-0.200	-0.200	2564.363	-0.200	87.403	0.001	722.791	-0.278	-0.343	-0.343
Piece 003	-0.198	-0.198	2564.149	-0.414	87.404	0.002	722.493	-0.576	-0.709	-0.709
Piece 004	0.187	0.187	2564.536	-0.027	87.402		723.031	-0.038	-0.047	-0.047
Piece 005	-0.183	-0.183	2564.119	-0.444	87.404	0.002	722.452	-0.617	-0.760	-0.760
Minimum	-0.200		2563.961		87.402		722.232		-1.032	
Maximum	0.187		2564.536		87.405		723.031		-0.047	
Range	0.387		0.575		0.003		0.799		0.985	
Mean	-0.116		2564.226		87.404		722.600		-0.578	
Std. Dev.	0.169439		0.224984		0.001140		0.312657		0.385223	
Cr	0.254		0.337		0.002		0.469		0.578	
Cp	3.935		2.963		584.795		2.132		1.731	
Cpk Sigma +/- 3	3.707		2.463		584.238		1.632		1.230	
Std. Dev. (Range)	0.169439		0.224984		0.001140		0.312657		0.385223	
XBarBar	-0.116		2564.226		87.404		722.600		-0.578	
RBar	0.000		0.000		0.000		0.000		0.000	
Pp	3.935		2.963		584.795		2.132		1.731	
Ppk	3.707		2.463		584.327		1.632		1.230	



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/17X	8/17Y	8/17Z	8/17V	8/18X
Nominal	2578.146	85.909	715.790	0.000	2591.860
Geo. Name	X	Y	Z	VECTOR	X
Tolerance	+/-2.000	+/-2.000	+/-2.000	+/-2.000	+/-2.000
Comment	LOCATION OF POINT 8_17				LOCATION OF POINT 8_18
Device	CMM	CMM	CMM	CMM	CMM
Piece 001	2577.783	85.906	714.889	-0.972	2591.641
Piece 002	2578.073	85.908	715.609	-0.195	2591.841
Piece 003	2577.898	85.907	715.173	-0.665	2591.703
Piece 004	2578.123	85.909	715.732	-0.063	2591.875
Piece 005	2577.885	85.907	715.141	-0.699	2591.700
Minimum	2577.783	85.906	714.889	-0.972	2591.641
Maximum	2578.123	85.909	715.732	-0.063	2591.875
Range	0.340	0.003	0.843	0.909	0.234
Mean	2577.952	85.907	715.309	-0.519	2591.752
Std. Dev.	0.141286	0.001140	0.350731	0.378099	0.100593
Cr	0.212	0.002	0.526	0.567	0.151
Cp	4.719	584.795	1.901	1.763	6.627
Cpk Sigma +/- 3	4.262	584.238	1.443	1.306	6.269
Std. Dev. (Range)	0.141286	0.001140	0.350731	0.378099	0.100593
XBarBar	2577.952	85.907	715.309	-0.519	2591.752
RBar	0.000	0.000	0.000	0.000	0.000
Pp	4.719	584.795	1.901	1.763	6.627
Ppk	4.262	584.327	1.443	1.306	6.269



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COLUMN DETAIL - GROUP SIZE: 1 - STD. DEV BASED ON: Population (N) - (Continued)

BAL/Desc/Loc	8/18Y		8/18Z		8/18V	
Nominal	82.473		711.187		0.000	
Geo. Name	Y		Z		VECTOR	
Tolerance	+/-2.000		+/-2.000		+/-2.000	
Comment						
Device	CMM		CMM		CMM	
Piece 001	82.460	-0.013	710.458	-0.729	-0.761	-0.761
Piece 002	82.472	-0.001	711.123	-0.064	-0.067	-0.067
Piece 003	82.464	-0.009	710.665	-0.522	-0.546	-0.546
Piece 004	82.474	0.001	711.237	0.050	0.052	0.052
Piece 005	82.464	-0.009	710.655	-0.532	-0.556	-0.556
Minimum	82.460		710.458		-0.761	
Maximum	82.474		711.237		0.052	
Range	0.014		0.779		0.813	
Mean	82.467		710.828		-0.376	
Std. Dev.	0.005933		0.334553		0.349353	
Cr	0.009		0.502		0.524	
Cp	112.366		1.993		1.908	
Cpk Sigma +/- 3	112.018		1.635		1.550	
Std. Dev. (Range)	0.005933		0.334553		0.349353	
XBarBar	82.467		710.828		-0.376	
RBar	0.000		0.000		0.000	
Pp	112.366		1.993		1.908	
Ppk	112.018		1.635		1.550	